

Title (en)

Fluid pump control device for wheel loaders

Title (de)

Steuereinrichtung für die Hydraulikpumpen von Radladern

Title (fr)

Dispositif de commande pour les pompes hydrauliques des chargeuses à roues

Publication

EP 1676962 B1 20160629 (EN)

Application

EP 05028251 A 20051222

Priority

KR 20040114576 A 20041229

Abstract (en)

[origin: EP1676962A2] A fluid pump control device for wheel loaders includes an engine (8) for driving an axle through a transmission (9), a main pump (P1), a variable-displacement steering pump (P2) with a pump regulator (14), an auxiliary pump (P3), an electronic proportional control valve (17) provided on a discharge quantity control signal line (16) leading to the pump regulator (14) for variably controlling a pilot pressure (19) conveyed to the pump regulator (14), a hydraulic load detector (4) for detecting a real hydraulic load (Px), an engine revolution detector (10) for detecting the number of revolution (N1) of the engine (8), a transmission revolution detector (11) for detecting the number of output shaft revolution (N2) of the transmission (9). A controller (20) is adapted to control the electronic proportional control valve (17) and hence the fluid discharge quantity of the steering pump (P2), based on the real hydraulic load (Px), the number of revolution (N1) of the engine (8) and the number of output shaft revolution (N2) of the transmission (9).

IPC 8 full level

E02F 9/22 (2006.01)

CPC (source: EP KR US)

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Cited by

FR2919676A1; EP2916012A4; EP3372734A1; US10370826B2

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EP 1676962 A2 20060705; **EP 1676962 A3 20080618**; **EP 1676962 B1 20160629**; CN 1796669 A 20060705; CN 1796669 B 20100602; KR 101151562 B1 20120530; KR 20060075702 A 20060704; US 2006137337 A1 20060629; US 7281373 B2 20071016

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